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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/785,474	02/20/2001	Rudolph Tanzi	0609.418002/JAG/JUK	6844
26111 75	10/06/2003		EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W.			HAYES, ROBERT CLINTON	
WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
			1647	

DATE MAILED: 10/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/785,474	TANZI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert C. Hayes, Ph.D.	1647				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	· is action is non-final.					
, 		resocution as to the morits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	I.	*				
4a) Of the above claim(s) is/are withdray	wn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-15</u> are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by the Exa	miner.				
Applicant may not request that any objection to the		• •				
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-11, drawn to nucleic acids encoding a mutant PS1 polypeptide of SEQ ID NO:2 or 4, vectors, host cells, and methods of producing the polypeptide, classified in Class 435, subclass 69.1. Note that a single SEQ ID NO must be chosen to be responsive.
 - II. Claim 12, drawn to an isolated PS1 polypeptide of SEQ ID Nos: 4, 28, 30 or 32, classified in Class 530, subclass 350. Note that a single SEQ ID NO must be chosen to be responsive.
 - III. Claim 13, drawn to antibodies of the PS1 polypeptide, classified in Class 530,subclass 387.1+. Note that a single SEQ ID NO must be chosen to be responsive.
 - IV. Claim 14, drawn to a method for diagnosing a patient for Alzheimer's disease comprising hybridization to a mutant PS1 probe, classified in Class 435, subclass 6.
 - V. Claim 15, drawn to a method diagnosing a patient for Alzheimer's disease comprising detecting bound antibody from a mutant PS1 polypeptide, classified in Class 435, subclass 7.21.

2. The inventions are distinct, each from the other because of the following reasons:

Although there are no provisions under the section for "Relation of Inventions" in MPEP 806.05 for inventive groups that are directed to different products, restriction is deemed proper because these products appear to constitute patently distinct inventions for the following reason:

Groups I-III are directed to products that are physically and functionally distinct, which include polynucleotides, proteins, or antibodies. All of these products can be prepared by different processes, such as though chemical synthesis or isolation from natural sources using various isolation/purification procedures. For example, the proteins of Group II and antibodies of Group III are fundamentally different molecules than the nucleic acid molecules of Group I, which in turn can be used to clone the protein, make vaccines, or to identify cells expressing the protein. Although the antibodies of Group III can be used in isolating the proteins of Group II, the antibodies of Group III can be generated by immunizing animals with a small synthetic portion of the full length protein, and can be used diagnostically in other ways, such as in affinity chromatography or in immunoassays, or as therapeutic agents themselves. The proteins of Group II can be utilized in making the antibodies of Group III, but not vice versa. Additionally, neither the proteins of Group II or antibodies of Group III require the vectors and host cells of Group I, and vice versa. It is pointed out that there is a proper distinction between these groups, since each product is not required in order for the other to exist. Thereby, these groups are distinct and separable for the reasons stated.

Art Unit: 1647

Inventions I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case, the nucleic acids of Group I can be used in other diagnostic methods, or used in to clone proteins. In contrast, the method of Group IV requires a patient with possible Alzheimer's disease, as well as assay conditions using labeled probes, which is not required in Group I. It is noted that the method of Group IV does not require the products of Groups II or III, and vice versa.

Inventions III and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown as stated above (M.P.E.P. § 806.05(h)). In the instant case, the antibodies of Group III can be used in other diagnostic or purification methods, or used as possible therapeutic agents themselves. In contrast, the method of Group V requires use of patients with possible Alzheimer's disease, as well as binding assays, which are not required in Group III. It is noted that the method of Group V does not require the products of Groups I or II, and vice versa.

Although there are no provisions under the section for "Relation of Inventions" in MPEP 806.05 for inventive groups that are directed to different methods, restriction is deemed proper because these methods appear to constitute patently distinct inventions for the following reason:

Application/Control Number: 09/785474 Page 5

Art Unit: 1647

Groups IV-V are directed to methods of diagnosing Alzheimer's disease using either nucleic acids or antibodies, respectively. Each of the methods require physically and functionally distinct elements. For example, the method of Group IV requires nucleic acid probes not required in the method of Group V, and vice versa. In contrast, the method of Group V requires antibodies not required in the method of Group IV, and vice versa. These inventions are, therefore, patentably distinct, since one is not required for the other.

Because these inventions are distinct for the reasons given above, they have acquired a separate status in the art as shown by their different classification, and the non-coextensiveness of the search and examination for each group would constitute an undue burden on the examiner to search and consider all the separable groups with their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

3. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

Art Unit: 1647

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Robert Hayes whose telephone number is (703) 305-3132. The examiner can normally be reached on Monday through Thursday, and alternate Fridays, from 8:30 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz, can be reached on (703) 308-4623. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Robert C. Hayes, Ph.D.

October 1, 2003

part. sig.